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=> file merck
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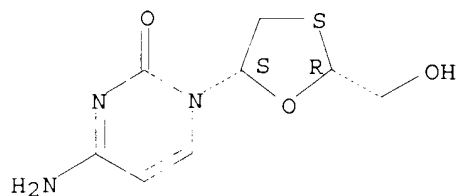
This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s lamivudine
L1 1 LAMIVUDINE

=> d all

L1 ANSWER 1 OF 1 MRCK COPYRIGHT (C) 1996, 2002 MERCK & CO., INC.,
Whitehouse Station, N. J.
MERCK Number (MNO): 5365
CAS Registry No. (RN): 134678-17-4
MERCK Index Name (MIN): **Lamivudine**
CA Index Name (CN): (2R-cis)-4-Amino-1-[2-(hydroxymethyl)-1,3-oxathiolan-5-yl]-2(1H)-pyrimidinone
Synonym(s) (CN): (-)-2'-deoxy-3'-thiacytidine; (-)-1-[(2R,5S)-2-(hydroxymethyl)-1,3-oxathiolan-5-yl]cystosine; 3'-thia-2',3'-dideoxycytidine; 3TC
Drug Code(s) (CN): (-)-BCH-189; GR-109714X
Trade Name(s) (CN): Epivir (Glaxo Wellcome); Zeffix (Glaxo Wellcome)
Molecular Form. (MF): C8 H11 N3 O3 S
Wgt Composition (COMP): C 41.91%, H 4.84%, N 18.33%, O 20.94%, S 13.99%.
Molecular Weight (MW): 229.26
References (RE): Reverse transcriptase inhibitor. Prepn: J. A. V. Coates et al., PCT Int. pat. Appl. 91 17159, C.A. 117, 111989 (1991). Synthesis of enantiomers: J. W. Beach et al., J. Org. Chem. 57, 2217 (1992); of (-)-enantiomer: D. C. Humber et al., Tetrahedron Letters 33, 4625 (1992). HPLC determin in urine: D. M. Morris, K. Selinger, J. Pharmaceut. Biomed. Anal. 12, 255 (1994). Clinical trial in hepatitis B: F. Nevens et al., Gastroenterology 113, 1258 (1997). Review of pharmacology and clinical efficacy in HIV infection: C. M. Perry, D. Faulds, Drugs 53, 657-680 (1997).

Absolute stereochemistry. Rotation (-).



Melting Point (MP):

Value
MP
deg C
=====

160 - 162

Optical Rotatory Power (ORP):

Value	Temp.	Spectral	
ORP	ORP.T	Line	Note
deg	deg C	ORP.SL	
=====	=====	=====	=====
-135	21	D	(c = 0.38 in methanol)

Other Properties (OCP):

Crystals from boiling ethanol. mp 160-162.degree. . [.alpha.]D21
-135.degree. (c = 0.38 in methanol) . Soly in water (20.degree.): 70
mg/ml.

Therapeutic Codes (THER):

Antiviral.

Other Sources (OS):

989

Referenced Patent (RPN):

WO9117159

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